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NOTICE OF ALLOWANCE AND FEE(S) DUE

20991

7590

12/23/2008

THE DIRECTV GROUP, INC.
PATENT DOCKET ADMINISTRATION
CA / LA1 / A109
2230 E. IMPERIAL HIGHWAY
EL SEGUNDO, CA 90245

EXAMINER					
ZEE, EDWARD					
ART UNIT	PAPER NUMBER				

2435 DATE MAILED: 12/23/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,934	03/03/2004	Ronald P. Cocchi	PD-203002A	4142

TITLE OF INVENTION: MULTIPROCESSOR CONDITIONAL ACCESS MODULE AND METHOD FOR USING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	03/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

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	IAL HIGHWAY		Γ				(Depositor's name)
EL SEGUNDO,	CA 90243						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	PR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
10/791,934	03/03/2004	•	Ronald P. Cocchi		•	PD-203002A	4142
		CONDITIONAL ACCES		ı		T	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI	E PREV. PA	ID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0		\$0	\$1510	03/23/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
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Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, alterna (2) the name of a sin registered attorney of	a single firm (having as a member a ey or agent) and the names of up to nt attorneys or agents. If no name is			
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CTI	patent. If an n assignment 'Y and STAT	E OR COUN	TRY)	ocument has been filed for
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☐ Publication Fee (N	To small entity discount p		☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	tus (from status indicated s SMALL ENTITY statu	,	☐ b. Applicant is no lo	nger claimin	g SMALL EN	TITY status. See 37 CF	FR 1.27(g)(2).
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10/791,934	10/791,934 03/03/2004		Ronald P. Cocchi	PD-203002A	4142
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PATENT DOCKET ADMINISTRATION				ART UNIT	PAPER NUMBER
CA / LA1 / A10 2230 E. IMPER FL SEGUNDO	IAL HIGH			2435 DATE MAILED: 12/23/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 953 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 953 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/791,934	COCCHI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	EDWARD ZEE	2435	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits application is and MPEP 1308.	n this application. If not included unication will be mailed in due cou subject to withdrawal from issue a	ırse. THIS
1. This communication is responsive to the amendments filed	on 10/10/08 and the interv	iew conducted on 12/16/08.	
2. \boxtimes The allowed claim(s) is/are $\underline{1-5,12-19,21,23,25,27}$ and $\underline{29-100}$	<u>32</u> .		
 Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Applicati	on No	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOT	
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must	, ,	n deciaration is deficient.	
(a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	.84(c)) should be written on	the drawings in the front (not the ba	ck) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note	e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview S	Summary (PTO-413), /Mail Date	
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's	Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.	Statement of Reasons for Allowa	nce

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. As per MPEP 713.04, a separate interview summary form is not provided as the substance of the interview has been summarized herein.

Authorization for this examiner's amendment was given in a telephone interview with Todd N. Snyder (No. 41,320) on December 16th, 2008.

The application has been amended as follows:

• Please replace Claims 1, 11, 19, 23, 24, 25, 28, 29 and 30 as follows:

1. (CURRENTLY AMENDED) A conditional access module, configured to control access to a media program via a receiver communicably coupleable to the conditional access module, comprising:

a first processor;

a second processor; and

an interface module, communicatively coupled to the first processor and the second processor, the interface module configured to process all communications with the conditional access module and to externally manifest a single virtual processor to the receiver;

wherein the interface module receives messages from the receiver, interprets the received messages, and generates first processor messages for the first processor and

second processor messages for the second processor, the first processor messages and the second processor messages defining a functional allocation between the first processor and the second processor and wherein the received messages include encrypted data and the functional allocation is time varied according to the encrypted data[[.]];

wherein the interface module receives a first set of response messages generated by the first processor and a second set of response messages generated by the second processor and generates conditional access response messages using at least a portion of the first set of response messages and at least a portion of the second set of response messages;

wherein the interpreted messages include encrypted information, and wherein the first processor partially decrypts the encrypted information and the second processor further decrypts the partially decrypted information.

11. (CANCELLED)

19. (CURRENTLY AMENDED) A method of controlling access to a media program, comprising the steps of:

receiving a message in a conditional access module from a receiver, the message comprising encrypted information to be decrypted by operations independently performed by [[a]] both a first processor and a second processor in the conditional access module;

generating first processor commands and second processor commands from the message;

first processor response and the second processor response;

providing the first processor commands to the first processor and the second processor commands to the second processor;

receiving a first processor response from the first processor;
receiving a second processor response from the second processor; and
generating a conditional access message response from at least a portion of the

wherein the media program is encrypted by a control word, the encrypted information is a control word packet, and the conditional access message response is the control word and wherein the first processor messages and the second processor messages define a functional allocation between the first processor and the second processor and wherein the functional allocation is time varying[[.]];

wherein the message includes encrypted data and the functional allocation is time varied according to the encrypted data;

wherein the first processor partially decrypts the encrypted information and the second processor further decrypts the partially decrypted information.

23. (CURRENTLY AMENDED) The method of claim [[22]]19, wherein the functional allocation is time varied according to a clock received externally from the conditional access module.

24. (CANCELLED)

25. (CURRENTLY AMENDED) An apparatus configured to control access to a media program, comprising:

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a first processor;

a second processor; and

means for receiving a message in a conditional access module from a receiver, the message comprising encrypted information to be decrypted by operations independently performed by [[a]] both [[a]]the first processor and [[a]]the second processor in the conditional access module;

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means for generating first processor commands and second processor commands from the message;

means for providing the first processor commands to the first processor and the second processor commands to the second processor;

means for receiving a first processor response from the first processor;

means for receiving a second processor response from the second processor; and

means for generating a conditional access message response from at least a

portion of the first processor response and the second processor response;

wherein the media program is encrypted by a control word, the encrypted information is a control word packet, and the conditional access message response is the control word and wherein the first processor messages and the second processor messages define a functional allocation between the first processor and the second processor and wherein the functional allocation is time varying[[.]];

wherein the message includes encrypted data and the functional allocation is time varied according to the encrypted data;

wherein the first processor partially decrypts the encrypted information and the second processor further decrypts the partially decrypted information.

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28. (CANCELLED)

29. (CURRENTLY AMENDED) The apparatus of claim [[28]]1, wherein the partially

decrypted [[data]]information is provided from the first processor to the second processor

via the interface module.

30. (CURRENTLY AMENDED) The apparatus of claim [[28]]1, wherein the partially

decrypted [[data]]information is provided directly from the first processor to the second

processor.

3. The following is an examiner's statement of reasons for allowance: the remarks filed on

10/10/08 have been considered and are persuasive, in particular the arguments found on pages 12

and 14 of the remarks. Therefore, Claims 1-5, 12-19, 21, 23, 25, 27 and 29-32 are deemed

allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDWARD ZEE whose telephone number is (571)270-1686. The

examiner can normally be reached on Monday through Thursday 9:00AM-5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EZ
December 17, 2008
/Kimyen Vu/
Supervisory Patent Examiner, Art Unit 2435